

Application Serial No.: 09/286,530
Attorney Docket No.: 2C03.1-220
CIBA Docket No.: CL/V-31739/WEJ1239
PATENT

IN THE CLAIMS

Please amend the original claims (~~strike through~~ indicating deletion and underline indicating insertion), and enter new claims as follows:

1. (currently amended) An intraocular lens for surgical implantation in the eye, the lens comprising:

a unitary structure comprising a substantially homogeneous biologically inert transparent material and including an optic portion and a haptic portion, with both the optic and haptic portions comprising a single casting of the same biologically inert transparent material, and at least one portion of the haptic portion is coated with polyimide to promote fibrosis between the haptic portion and eye tissue to which the haptic portion is to be connected.

2. (previously amended) The intraocular lens of claim 9 wherein said treatment of the haptic portion comprises a photocurable polyimide pre-cursor on at least the anchoring region of the haptic portion, which is cured before the polyimide is applied.

3. (cancelled).

4. (previously amended) The intraocular lens of claim 1 wherein the optic and haptic portions comprise silicone polymer.

5. (previously amended) The intraocular lens of claim 1 wherein the optic and haptic portions comprise acrylic polymer.

6. (previously amended) The intraocular lens of claim 1 wherein the optic and haptic portions comprise 2-hydroxyethylmethacrylate polymer.

7. (previously amended) The intraocular lens of claim 1 wherein the optic and haptic portions, comprise polymethylmethacrylate.

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8. (previously amended) The intraocular lens of claim 1 wherein the optic portion comprises a UV absorbing compound.
9. (previously amended) The intraocular lens of claim 1 wherein the surface of the haptic portion includes an anchoring region distal end that has been treated before the polyimide coating has been applied to increase the bonding strength between the core and the polyimide coating.
10. (previously amended) The intraocular lens of claim 9 wherein the surface of the haptic portion, at least on the anchoring region, is treated by a corona discharge.
11. (previously amended) The intraocular lens of claim 9 wherein the surface of the haptic portion, at least on the anchoring region, is treated by an oxidizing agent.
12. (previously amended) The intraocular lens of claim 1 wherein the surface of the haptic portion, at least on the anchoring region, has been treated before the polyimide coating has been applied by contacting the haptic portion, at least on the anchoring region, with an adhesion promoter effective to enhance the bond strength of the polyimide coating to the haptic portion.
13. (original) The intraocular lens of claim 12 wherein the adhesion promoter is a primer component.
14. (previously amended) The intraocular lens of claim 1 wherein the haptic portion is a filament.
15. (previously amended) The intraocular lens of claim 1 wherein the haptic portion is a footplate.

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16. (currently amended) A unitary intraocular lens comprising:

an optic;

two plate haptics diametrically opposed and extending radially away from the optic, each of the haptics having a groove adjacent a distal peripheral edge; and

a polyimide coating on the interior of the groove;

wherein the optic and the plate haptics comprise a unitary molding of the same substantially homogeneous biologically inert transparent material.

17. (previously amended) The intraocular lens of claim 16 wherein the optic and haptics are integrally formed comprises a UV absorbing compound.

18. (cancelled).

19. (previously amended) The intraocular lens of claim 16 wherein the optic and haptic comprise silicone polymer.

20. (previously amended) The intraocular lens of claim 16 wherein the optic and haptic comprise acrylic polymer.

21. (previously amended) The intraocular lens of claim 16 wherein the optic and haptic comprise 2-hydroxyethylmethacrylate polymer.

22. (previously amended) The intraocular lens of claim 16 wherein the optic and haptic comprise polymethylmethacrylate.

23. (cancelled)

24-39 (withdrawn)

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40. (currently amended) A device for implantation in a human to be anchored in a secured position within human tissue, the device comprising:

a biologically inert exterior surface region; and

a polyimide coating on at least an anchoring region of said surface, the coating sufficient to be effective to promote fibrosis of the ~~surrounding human~~ tissue with the polyimide to enhance the anchoring of the device to the surrounding tissue;

wherein the device is shaped in the form of an intraocular lens, the intraocular lens comprising an optic and at least one haptic which form a unitary structure with ~~having the~~ anchoring region located away from the optic; and

wherein the optic and haptic, being a unitary molding formed of a substantially homogenous transparent composition, comprise a silicone polymer, an acrylic polymer, a hydroacrylic polymer, a 2-hydroxyethylmethacrylate polymer, a polymethylmethacrylate polymer, or combinations thereof.

41. (cancelled).

42. (previously amended) The device of claim 40, wherein the haptic is shaped in the form of a filament.

43. (previously amended) The device of claim 40, comprising two haptics shaped in the form of a plate, diametrically opposed and extending radially away from the optic, each of the haptics having a groove in a distal peripheral edge, wherein the polyimide coating is on the interior of the groove.

44. (previously amended) The device of claim 40, wherein the polyimide coating is formed by applying a photocurable polyimide pre-cursor on at least the anchoring region of the haptic, and then curing the polyimide pre-cursor.

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45. (original) The device of claim 44 wherein the polyimide pre-cursor is photocurable by exposure to actinic radiation.

46. (previously amended) The device of claim 40, wherein the surface of the haptic at least on the anchoring region has been treated before the polyimide coating has been applied to increase the bonding strength between the core and the polyimide coating.

47. (previously amended) The device of claim 46 wherein the surface of the haptic at least on the anchoring region is treated by corona discharge.

48. (previously amended) The device of claim 46 wherein the surface of the haptic at least on the anchoring region is treated by an oxidizing agent.

49. (previously amended) The device of claim 40, wherein the surface of the haptic at least on the anchoring region has been treated before the coating has been applied by contacting the haptic core with an adhesion promoter effective to enhance the bond strength of the polyimide coating to the haptic core.

50. (previously amended) The device of claim 49, wherein the adhesion promoter is a primer component.

51. (previously amended) The device of claim 40, wherein the polyimide coating is formed by treating at least the anchoring region of the surface of the haptic, applying a photocurable polyimide pre-cursor to the treated region, and curing the polyimide pre-cursor.

52. (previously added) The device of Claim 51, wherein the treating comprises exposing the region to a primer component, a corona electrical discharge, a gas plasma or a chemical etching.

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53. (previously added) The device of Claim 51, wherein the polyimide precursor is photocurable by exposure to actinic radiation.

54. (previously added) The intraocular lens of Claim 1, wherein the unitary structure is comprised of a hydroacrylic polymer.

55. (previously added) The intraocular lens of Claim 16, wherein the unitary structure is comprised of a hydroacrylic polymer.